

**Abstract of the Disclosure**

Provided are a method of updating a tap coefficient of a channel equalizer while reducing the number of calculations and the divergence, and a circuit arranged and configured to execute the method. The method includes evaluating whether or not an error of the channel equalizer converges within a range of a threshold of visibility and determining the status of a control signal to select whether the tap coefficient of the channel equalizer will be updated using a least mean square (LMS) algorithm or a Kalman algorithm, wherein the LMS algorithm is the default error correction means and the Kalman algorithm is utilized when the control signal indicates the presence of a training signal.